

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-005471**Date Inspected:** 17-Feb-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 645**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1845**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Li Zhi Jiang**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG COMPONENTS**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Sandeep Kumar was present during the times noted above for observations relative to the work being performed.

Bay 2

**Magnetic Particle Testing**

This QA inspector performed MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. The members are identified as OBG Corner Sections. The weld designations reviewed are as follows:

CSD11-PP010 – 011; 13 and Green Tag - 003651

CSD14-PP9.5 – 207 and Green Tag - 003657

CSD13-PP9.5 – 045 and Green Tag - 003652

CSD14-PP9 – 170 and Green Tag - 003660

CSD14-PP9.5 – 073 and Green Tag - 003661

CSD14-PP9 – 133 and Green Tag - 003662

CSD14-PP9 – 35 and Green Tag - 003649

CSD13-PP9.5 – 261 and Green Tag - 003665

CSD13-PP9.5 – 270 and Green Tag - 003664

CSD13-PP9.5 – 259 and Green Tag - 003663

CSD13-PP9.5 – 268 and Green Tag - 003653

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CSD12-PP010 – 12; 14; 32 and Green Tag - 003655

CSD12-PP010 – 45 and Green Tag - 003656

CSD14-PP9 – 123 and Green Tag - 003650

CSD13-PP9.5 – 159 and Green Tag - 003654

CSD13-PP9.5 – 93 and Green Tag - 003659

FB063-002 – 039

FB064-001 – 040

4AW

### Magnetic Particle Testing

This QA inspector performed MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. The members are identified as OBG Components. The weld designations reviewed are as follows:

SSD14 – PP025 :- 38; 39; 40; 41; 42; 43; 52; 53; 54; 55; 220; 234

SSD14A – PP025:- 36; 37; 38; 39; 40; 41; 240; 254

SSD29 – PP0255:- 49; 50; 51; 52; 53; 54; 61; 62; 63; 64; 65; 66; 97; 98; 99; 100; 101; 102

Bay 2

This QA Inspector observed the following work in progress:

FCAW process welding of weld joint #011 located on LD003-028. Welder is identified as 202654. The welding variables recorded by QC appeared to comply with the WPS – B – T – 2132 – 3.

Bay 3

This QA Inspector observed the following work in progress:

FCAW process welding of weld joint #084 located on FB003-132. Welder is identified as 044824. The welding variables recorded by QC appeared to comply with the WPS – B – T – 2132 – 3.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

No Relevant Conversations.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang - 15000422372, who represents the Office of Structural Materials for your project.

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**Inspected By:** Kumar,Sandeep

Quality Assurance Inspector

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**Reviewed By:** Clifford, William

QA Reviewer